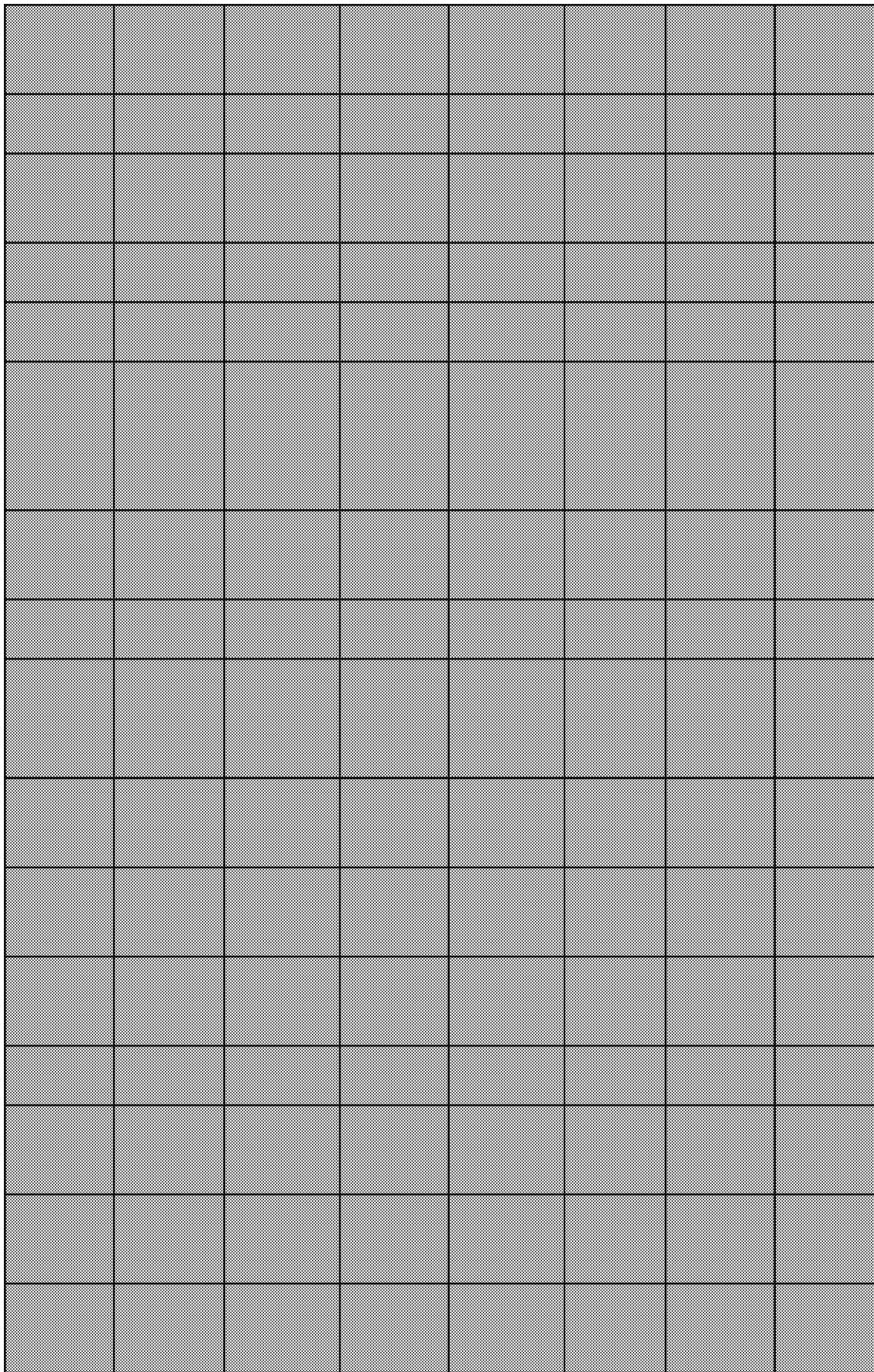


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A cDNA clone encoding a glutathione peroxidase (GPX)-like protein was isolated from the cDNA library from halotolerant

Aspergillus fumigatus is a major opportunistic pathogen and allergen of mammals. Nutrient sensing and acquisition mech

The soxR locus of Escherichia coli K12 mediates transcriptional activation of a complex oxidative stress regulon in respon

Superoxide dismutase (SOD) detoxifies cell-toxic superoxide radicals and constitutes an important component of antioxi

Phospholipid hydroperoxide glutathione peroxidase (PHGPx) is a major antioxidant enzyme and plays critical roles in the

The recent genetic and biochemical studies reveal a considerable overlap among cellular processes in response to heat a

We have isolated the Brassica campestris cDNA encoding glutathione reductase of 502 amino acid residues with molecu

Two cDNAs (FeSODA and FeSODB cDNAs) corresponding to superoxide dismutase (1.15.1.1., SOD) were isolated from a T

Genetic complementation of a sodA sodB Escherichia coli mutant strain was used to clone Rhodobacter capsulatus genes

A cDNA encoding a cytosolic ascorbate peroxidase (APX), swAPX1, was isolated from cell cultures of sweet potato (Ipom

The AbGst1 gene encoding a glutathione transferase from the necrotrophic pathogen Alternaria brassicicola was cloned

In a majority of living organisms, a fundamental protection mechanism from reactive oxygen species is by the ascorbate-

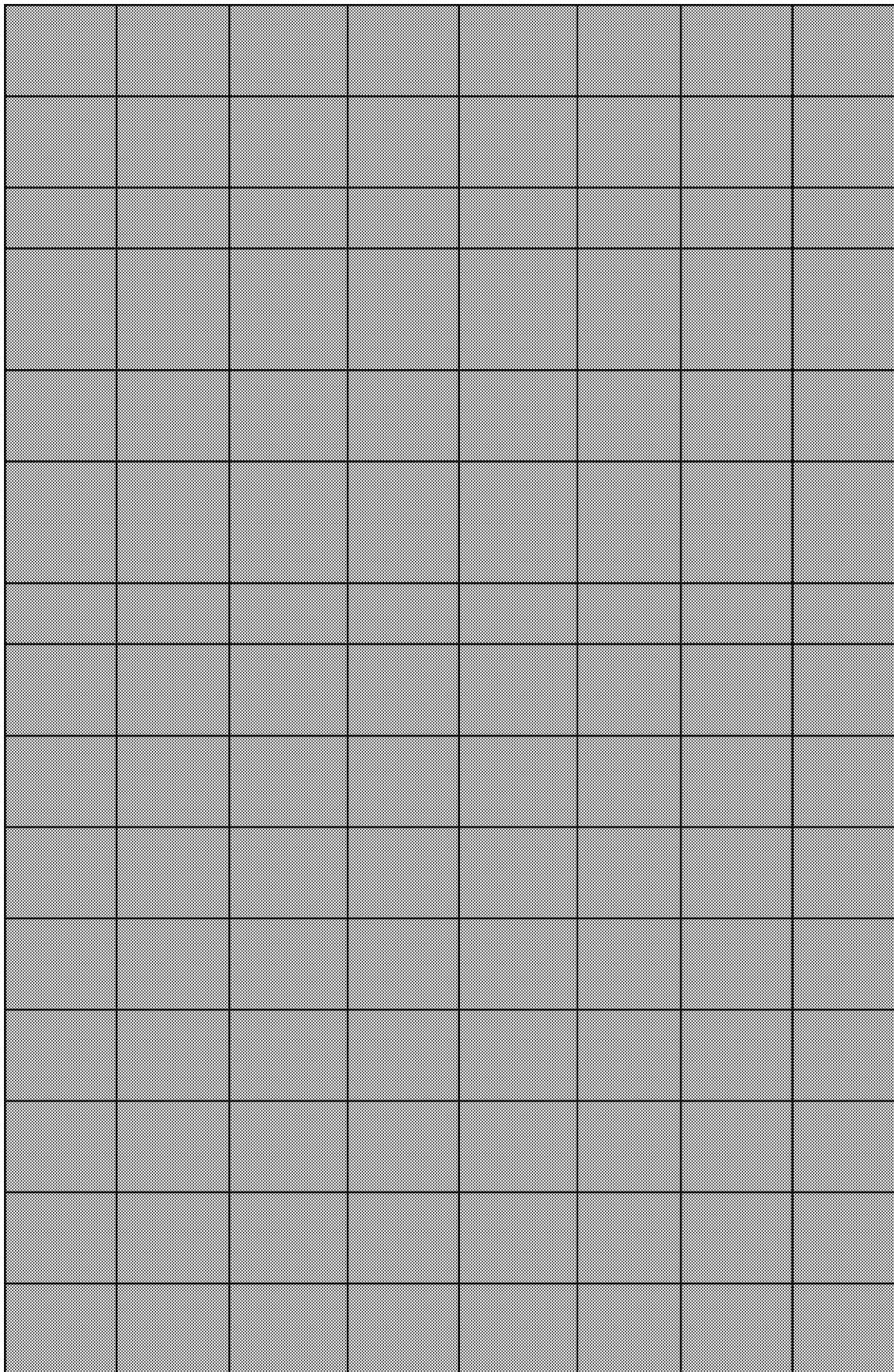
The gene encoding a superoxide dismutase (PiSOD) was cloned by suppressive subtractive hybridization from cDNA libra

A cDNA corresponding to superoxide dismutase (SOD; EC 1.15.1.1.) was isolated from a Leishmania donovani chagasi (L.

Thioredoxins (Trxs) are a family of small, highly conserved and ubiquitous proteins that are involved in protecting organis

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Thioredoxin peroxidase (Tpxs) plays an important role in maintaining redox homeostasis and in protecting organisms from oxidative damage.
MtsABC is a <i>Streptococcus pyogenes</i> ABC transporter which was previously shown to be involved in iron and zinc accumulation.
The genome of the green sulfur bacterium <i>Chlorobaculum (Cba.) tepidum</i> , a strictly anaerobic photolithoautotroph, is published.
Microbial flavohaemoglobins are proteins with homology to haemoglobins from higher organisms, but clearly linked to respiration.
Escherichia coli formamidopyrimidine DNA glycosylase (Fpg), MutY DNA glycosylase, endonuclease VIII, and endonuclease IV are involved in DNA repair.
Using differential screening we have cloned a cDNA encoding a novel oxidative stress protein designated A170 from murine fibroblasts.
The yeast gene PSO7 was cloned from a genomic library by complementation of the pso7-1 mutant's sensitivity phenotype.
A novel thioredoxin-linked thiol peroxidase (Px) from <i>Escherichia coli</i> has been reported previously (M. K. Cha, H. K. Kim, et al., 1998).
Familial amyotrophic lateral sclerosis (FALS) is associated with mutations in SOD1, the gene encoding copper/zinc superoxide dismutase.
In <i>Escherichia coli</i> , MutM (8-oxoG DNA glycosylase/lyase or Fpg protein), MutY (adenine DNA glycosylase) and MutT (8-oxoGMP lyase) are involved in DNA repair.
An mdaB mutant strain in a quinone reductase (MdaB) of <i>Helicobacter hepaticus</i> type strain ATCC51449 was constructed.
Oxidative stress resistance is one of the key properties that enable pathogenic bacteria to survive the toxic reactive oxygen species (ROS).
Soluble extracts of <i>Escherichia coli</i> contain four NADPH:paraquat diaphorases that were separable by anion-exchange HPLC.
The plant pathogen <i>Ralstonia solanacearum</i> , which causes bacterial wilt disease, is exposed to reactive oxygen species (ROS).
The iron-storage protein bacterioferritin (Bfr) from <i>Neisseria gonorrhoeae</i> strain F62 was identified in cell-free extracts as a major protein.
Catalase is hypothesized to be critical in the protection of <i>Neisseria gonorrhoeae</i> from H ₂ O ₂ produced during aerobic respiration.

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